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Ferric ion catalysed decomposition of hydrogen peroxide: effect of aliphatic acids . . . . . 1976, XXIX, 85
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Carbon-13 nuclear magnetic resonance spectroscopy of 5α- and 5β-cholestan-5-ols : Ring A substitution effects and isomer differentiation . . . . . 1977, XXX, 105
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Electrophilic addition reactions in terpenoid synthesis. Part I. The insect juvenile hormone analogues: *ar*-juvabione and dehydrojuvabiones . . . . . 1975, XXVIII, 328
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Compounds isolated from *Teclea natalensis* (family Rutaceae) . . . . . 1973, XXVI, 11
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Composition of the polysaccharide fraction of *Araucaria klinkii* gum . . . . 1973, XXVI, 111
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Methylation and hydrolysis studies of a gum from *Opuntia megacantha* Lehmaniana . . . . . 1973, XXVI, 45
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Route to nitriles of glycuronic acids and to branched-chain cyano-sugars . . 1975, XXVIII, 27
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Photodimerization. Part IV. The photodimerization of 1-methylindene . . . 1977, XXX, 21
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Chemistry of uranium. Part XIII. Non-aqueous conductometric titrations as a means of ligand classification . . . . . 1976, XXIX, 15
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Chemistry of uranium. Part XVI. The ionization of some f and 3d transition metal halides in acetone solution . . . . . 1976, XXIX, 105
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Coordination chemistry of divalent cobalt, nickel, and copper. Part IV. A theoretical interpretation of the ligand field splittings in a penta-coordinate $CuCl_2$-complex . . . . . 1975, XXVIII, 54
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Coordination chemistry of divalent cobalt, copper, and nickel. Part VI. Penta-coordinated dibromo (*N,N,N',N'*-tetramethylpyridine dicarboxamide) cobalt (II): preparation and crystal structure . . . . . 1975, XXVIII, 220

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Determination of the heats of formation of diazirines . . . . . 1975, XXVIII, 191
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Molecular vibrational constants of some simple polyatomic molecules. Dihalogenomethanes . . . . . 1977, XXX, 95
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Hammett correlation for the *N*-iodoamide lactonisation reaction . . . . . 1976, XXIX, 46
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Role of t-butyl hypoiodite in aromatic iodination reactions with t-butyl hypochlorite – iodine reagent . . . . . 1973, XXVI, 77
Glover, S.S., Goosen, A. and Laue, H.A.H.
Reactions of *N*-iodoamides: aromatic iodination . . . . . 1973, XXVI, 127
Gonsalves, J.W., Steenkamp, P.J., du Preez, J.G.H., Gellatly, B.J. and Gibson, M.L.
Chemistry of uranium. Part XXII. Theoretical interpretation of the magnetic susceptibilities of some seven-coordinated uranium (IV) chromophores . 1977, XXX, 62
Goosen, A.
see Britten-Kelly, M.R. . . . . 1975, XXVIII, 224
Goosen, A.
see Buchanan, K.J. . . . . 1976, XXIX, 85
Goosen, A.
see Glover, S.A. . . . . 1973, XXVI, 77
Goosen, A.
see Glover, S.S. . . . . 1973, XXVI, 127
Goosen, A.
see Glover, S.A. . . . . 1976, XXIX, 46
Goosen, A., Buchanan, K.J. and Lovelock, J.D.
Ferric ion catalysed decomposition of hydrogen peroxide: effect of hydroxy-acids and the mechanism of the Ruff degradation . . . . . 1977, XXX, 191
Goosen, A., Lovelock, J. and Taljaard, B.
Reactions of *N*-iodoamides: a novel preparation of trifluoroacetyl hypoiodite 1975, XXVIII, 235
Goosen, A. and McCleland, C.W.
Reaction of diols with aldehydes in the presence of iodine monochloride and t-butanol: a novel diol monoester synthesis . . . . . 1975, XXVIII, 358
Goosen, A. and Taljaard, B.
Reactions of *N*-iodoamides: the effect of acid catalysis on aromatic iodination 1975, XXVIII, 196
Graham, D.
see Glover, S.A. . . . . 1976, XXIX, 46
Green, I.R. and Delpierre, G.R.
Synthesis of 2-alkyl-5,6-dimethoxypyrazines . . . . . 1977, XXX, 183
Green, I.R. and Lamchen, M.
Route for the stepwise synthesis of poly-Δ'-pyrroline l-oxides . . . . . 1977, XXX, 145

Green, I.R. and Lamchen, M.
Reactions of 2-cyano-1-hydroxy-5,5-dimethyl-pyrrolidine with nucleophiles 1977, XXX, 149
Grobbelaar, N.
see Kruger, G.J. . . . . 1976, XXIX, 24
Groot, D.R.
see du Preez, J.G.H. . . . . 1976, XXIX, 105

H

Hall, R.H.
see Brink, A.J. . . . . 1974, XXVII, 124
Harpur, J.A.
see Bull, J.R. . . . . 1977, XXX, 175
Haylett, T.
see Strydom, D.J. . . . . 1977, XXX, 40
Hodgkinson, A.J. and Woolard, G.R.
Structural investigations of *Salmonella* lipopolysaccharides. The *O*-specific side-chain of *S. gallinarum* . . . . . 1974, XXVII, 111
Holzapfel, C.W.
see Dippenaar, A. . . . . 1977, XXX, 161
Holzapfel, C.W. and Gildenhuys, P.J.
Synthesis of DL-β-cyclopiazonic acid . . . . . 1977, XXX, 125
Holzapfel, C.W. and Marsh, J.J.
Isolation and structure of viridamine, a new nitrogenous metabolite of *Penicillium viridicatum* Westling . . . . . 1977, XXX, 197
Holzapfel, C.W. and Schabort, J.C.
Oxidative cyclization of β-cyclopiazonic acid in *Penicillium cyclopium* Westling . . . . . 1977, XXX, 233

J

Jerman, P.J.
see Letcher, T.M. . . . . 1976, XXIX, 55
Jordaan, A.
see Brink, A.J. . . . . 1974, XXVII, 124
Jordaan, A.
see de Villiers, O.G. . . . . 1975, XXVIII, 27
Joubert, F.J.
Studies on the high-sulphur proteins of reduced mohair. The isolation and the amino acid sequence of protein SCMKB-M 2.6 . . . . . 1975, XXVIII, 250

K

Kershaw, J.R.
Chemical nature of the oil formed by hydrogenation, supercritical gas extraction and Soxhlet extraction of the same coal . . . . . 1977, XXX, 205
Koekemoer, J.M., Vermeulen, N.M.J. and Anderson, L.A.P.
Chemistry of *Melianthus comosus* Vahl. Part VI. The structure of a new triterpenoid acid from the rootbark . . . . . 1974, XXVII, 131
Kokot, M.L.
see Strelow, F.W.E. . . . . 1976, XXIX, 97
Kruger, G.J.
see Coetzer, J. . . . . 1975, XXVIII, 312
Kruger, G.J., du Plessis, L.M. and Grobbelaar, N.
Structure of N^5-(3-hydroxymethyl-2,5-dihydro-2-furyl)-L-allo-γ-hydroxyglutamine, a new amino acid from *Hemerocallis fulva* L (Day Lily) . . . . . 1976, XXIX, 24
Kruger, J.A.
see Blom, P.W.E. . . . . 1975, XXVIII, 130

Kruger, P.E.J. and Arndt, R.R.
Synthesis and chemistry of 3-acetyl-1,5-trimethylene-tetramic acid (2-acetyl-1,3-diketopyrrolizidine) . . . . . 1973, XXVI, 132

L

Laing, M.
see du Preez, J.G.H. . . . . 1975, XXVIII, 220
Laing, M., Coleman, P.C. and Drewes, S.E.
Determination of the conformation of the cyclic dimeric ethylene ester of phthalic acid by X-ray diffraction . . . . . 1974, XXVII, 145
Laing, M., Pegel, K.H., Piacenza, L.P.L., Waight, E.S. and Phillips, L.
Unexpected hemiacetal formation by hydride. Reduction of γ-lactones derived from a beyerane diterpene: the determination of the stereochemistry by X-ray diffraction . . . . . 1974, XXVII, 137
Laing, M. and Sommerville, P.
Crystal and molecular structure of tecleanthine, an alkaloid from *Teclea natalensis* . . . . . 1974, XXVII, 162
Laing, M. and Sommerville, P.
Crystal and molecular structure of the 12-bromoacetate of 2,3-ethylidenedioxy-cleistanthol, an aromatic diterpene . . . . . 1975, XXVIII, 279
Lamchen, M.
see Green, I.R. . . . . 1977, XXX, 145
Lamchen, M.
see Green, I.R. . . . . 1977, XXX, 149
Laue, H.A.H.
see Glover, S.A. . . . . 1973, XXVI, 77
Laue, H.A.H.
see Glover, S.S. . . . . 1973, XXVI, 127
Lemmer, R.H.
see Boeyens, J.C.A. . . . . 1976, XXIX, 120
le Roux, H.J., Beukes, P.J.L., Turkstra, J. and de Wet, W.J.
Quantitative determination of palladium, iridium, platinum and gold in a standard platinum-bearing ore . . . . . 1974, XXVII, 28
le Roux, H.J. en van der Linde, H.J.
Stralingsgeinduseerde etervorming in butanoldamp . . . . . 1976, XXIX, 40
Letcher, T.M. and Jerman, P.J.
Thermodynamics of mixing for the systems, benzene, cyclohexane, and *n*-hexane with *n*-alkanes, at infinite dilution . . . . . 1976, XXIX, 55
Letcher, T.M. and Sack, J.
Excess enthalpy of mixing of some hydrocarbon mixtures . . . . . 1975, XXVIII, 316
Levin, M.
see Toerien, F. von S. . . . . 1974, XXVII, 91
Levin, M.
see Toerien, F. von S. . . . . 1974, XXVII, 87
Lotz, S.
see Cadman, P. . . . . 1974, XXVII, 149
Loubser, G.J.
see Engelbrecht, W.J. . . . . 1975, XXVIII, 191
Lourens, G.J.
see de Villiers, O.G. . . . . 1975, XXVIII, 27
Lovelock, J.
see Buchanan, K.J. . . . . 1976, XXIX, 85
Lovelock, J.
see Glover, S.A. . . . . 1976, XXIX, 46
Lovelock, J.
see Goosen, A. . . . . 1975, XXVIII, 235
Lovelock, J.D.
see Goosen, A. . . . . 1977, XXX, 191

Lustig, A.
see du Plessis, T.A. . . . . 1975, XXVIII, 241

M

McCleland, C.W.
see Goosen, A. . . . . 1975, XXVIII, 358
McGill, W.J.
see Ackerman, L. . . . . 1973, XXVI, 82
McGill, W.J.
see Ackerman, L. . . . . 1974, XXVII, 105
McGill, W.J., de Kock, L. and Fourie, L.
Stability of chlorinated waxes . . . . . 1977, XXX, 137
Maritz, B.S., van Eldik, R. and van den Berg, J.A.
Kinetics and mechanism of the photolysis of the tetrachloroaurate (III) oxalate system in acidic aqueous solution . . . . . 1975, XXVIII, 14
Marsh, J.J.
see Holzapfel, C.W. . . . . 1977, XXX, 197
Martins, F.J.C.
see Dekker, J. . . . . 1976, XXIX, 63
Martins, F.J.C.
see Dekker, J. . . . . 1976, XXIX, 114
Martins, F.J.C.
see Dekker, J. . . . . 1977, XXX, 21
Martins, F.J.C., Dekker, J., Viljoen, A.M. (Miss) and Venter, D.P.
Photodimerization. Part V. The conversion of 1,4-naphthoquinones to 2,2'-bi[1,4-naphthoquinonyl] derivatives through photodimerization and subsequent photo-oxidation . . . . . 1977, XXX, 89
Meltzer, P.C. and Staskun, B.
Nuclear bromination of 2',5'-dimethylbenzoyl-acetanilide . . . . . 1974, XXVI, 119
Moran, V.C. Persicaner, P.H.R. and Rivett, D.E.A.
Composition of four *Agathosma* oils and the identification of *S*-prenyl thioisobutyrate . . . . . 1975, XXVIII, 471

N

Neethling, A.C.
see de Kock, D.H. . . . . 1973, XXVI, 74
Neuse, E.W.
Proton magnetic resonance and infrared spectral characterization of tricarbonyl chromium complexes of *N*-benzylideneaniline . . . . . 1975, XXVIII, 365
Neuse, E.W. and Yannakou, K.
Tricarbonylchromium complexes of *N*-benzylideneaniline . . . . . 1974, XXVII, 14
Nicholson, C.G.
see Robb, W. . . . . 1977, XXX, 213
Nicholson, C.G.
see Robb, W. . . . . 1977, XXX, 221
Norval, S.
see Coetzee, J.H.J. . . . . 1974, XXVII, 44
Norval, S.
see Schep, R.A. . . . . 1974, XXVII, 56
Norval, S.
see Schep, R.A. . . . . 1974, XXVII, 63
Norval, S.
see Schep, R.A. . . . . 1975, XXVIII, 33
Novellie, L.
see Woolard, G.R. . . . . 1977, XXX, 24
Novellie, L.
see Woolard, G.R. . . . . 1977, XXX, 33

P

Pegel, K.H.
see Candy, H.A. . . . . 1973, XXVI, 11
Pegel, K.H.
see Laing, M. . . . . 1974, XXVII, 137
Peisach, M.
Fast neutron activation of calcium isotopes and its possible use for analysis 1975, XXVIII, 71
Peisach, M.
see Coetzee, P.P. . . . . 1975, XXVIII, 104
Perold, G.W.
One-electron oxidation of *meta*-cresol to bi-*meta*-cresols . . . . . 1975, XXVIII, 292
Perold, G.W.
Synthesis of *ortho*-aryl phenols: 2-biphenylol and 2,2'-dihydroxy-4,6'-dimethylbiphenyl . . . . . 1975, XXVIII, 300
Persicaner, P.H.R.
see Moran, V.C. . . . . 1975, XXVIII, 47
Phillips, L.
see Laing, M. . . . . 1974, XXVII, 137
Piacenza, L.P.L.
see Laing, M. . . . . 1974, XXVII, 137
Pipe, D.F., Snyckers, F.O. and Wiechers, A.
Evidence for an intramolecular hydride shift during formation of a novel 3,5-cyclosteroid . . . . . 1977, XXX, 181
Potgieter, H.G.J.
see Blom, P.W.E. . . . . 1975, XXVIII, 130
Pratt, J.M.
see Abel, E.W. . . . . 1977, XXX, 1
Pretorius, J.A. and Boeyens, J.C.A.
Crystal structure of bis[1-(2-thienyl)-4,4,4-trifluoro-1,2-butanedionato] copper (II) . . . . . 1977, XXX, 153
Pretorius, R.
see Coetzee, P.P. . . . . 1975, XXVIII, 104
Prinsloo, J.J.
see Zlotnick, J. . . . . 1974, XXVII, 70
Prinsloo, J.J.
see Zlotnick, J. . . . . 1974, XXVII, 80

R

Rathbone, E.B.
see Woolard, G.R. . . . . 1977, XXX, 24
Rathbone, E.B.
see Woolard, G.R. . . . . 1977, XXX, 29
Rathbone, E.B.
see Woolard, G.R. . . . . 1977, XXX, 33
Rathbone, E.B.
see Woolard, G.R. . . . . 1977, XXX, 69
Rathbone, E.B.
see Woolard, G.R. . . . . 1977, XXX, 169
Rathbone, E.B.
see Woolard, G.R. . . . . 1977, XXX, 229
Rathbone, E.B., Stephen, A.M., Schwersenski, J. and Tyler, J.B.
Hydrazine. Part XIII. ^{1}H-n.m.r. spectroscopy of substituted iminium ions containing cycloalkylidene and substituted benzylidene moieties . . . . 1975, XXVIII, 287
Ridler, G.M., Ridler, P.F. and Sheppard, J.G.
Solution of the differential rate equations. Part II. . . . . 1977, XXX, 55
Ridler, P.F.
see Ridler, G.M. . . . . 1977, XXX, 55

Ridler, P.F. and Sheppard, J.G.
Solution of the differential rate equations. Part I. . . . . 1977, XXX, 49
Rivett, D.E.A.
Structure of lasiocoryin, a grindelane diterpenoid from *Lasiocorys capensis* Benth. (Labiatae) . . . . . 1975, XXVIII, 305
Rivett, D.E.A.
see Moran, V.C. . . . . 1975, XXVIII, 47
Robb, W. and Nicholson, C.G.
Kinetic study of the substitution reactions of the dimeric bis(cycloocta-1,5-diene)-$\mu\mu'$-dihalodirhodium (I) species with 2,2'-bipyridyl . . . . . 1977, XXX, 213
Robb, W. and Nicholson, C.G.
Kinetics and mechanism of the reaction of chlorocycloocta-1,5-diene piperidine rhodium (I) with 2,2'-bipyridyl . . . . . 1977, XXX, 221
Robinson, E.A.
see Ford, T.A. . . . . 1977, XXX, 95
Rohwer, E.F.C.H.
see Cruywagen, J.J. . . . . 1976, XXIX, 30
Rohwer, E.F.C.H., Brink, J.A. and Cruywagen, J.J.
Dilatometric study of the protonation of sulphate . . . . . 1975, XXVIII, 1
Rohwer, H.E.
see du Preez, J.G.H. . . . . 1976, XXIX, 15
Rohwer, H.E.
see du Preez, J.G.H. . . . . 1976, XXIX, 105
Rouvray, D.H.
Isomer enumeration in the arenes. Part I. Tabulations for systems containing up to four benzene rings . . . . . 1973, XXVI, 141
Rouvray, D.H.
Isomer enumeration in the arenes. Part II. Tabulations for systems containing five benzene rings . . . . . 1974, XXVII, 20

S

Sack. J.
see Letcher, T.M. . . . . 1975, XXVIII, 316
Salemi, G.
see Snykers, F.O. . . . . 1974, XXVII, 5
Schabort, J.C.
see Holzapfel, C.W. . . . . 1977, XXX, 233
Scheffer, A.
see Britten-Kelly, M.R. . . . . 1975, XXVIII, 224
Schep, R.A., Coetzee, J.H.J. and Norval, S.
Polymer products formed when dimethyl methylphosphonate reacts with phosphorus pentoxide . . . . . 1974, XXVII, 63
Schep, R.A., Coetzee, J.H.J. and Norval, S.
Poly (methylarsenite-methylsiloxanes): reorganisation during gas-liquid chromatographic separation . . . . . 1975, XXVIII, 33
Schep, R.A., van Rensburg, J.F.J., Coetzee, J.H.J. and Norval, S.
Identification of the components separated from a methylarsenitesiloxane polymer system using gas chromatographic-mass spectrometric coupling 1974, XXVII, 56
Sheppard, J.G.
see Ridler, G.M. . . . . 1977, XXX, 55
Sheppard, J.G.
see Ridler, P.F. . . . . 1977, XXX, 49
Scott, F.
see Burger, B.V. . . . . 1976, XXIX, 143
Schwersenski, J.
see Rathbone, E.B. . . . . 1975, XXVIII, 287
Smalberger, T.M.
see Vleggaar, R. . . . . 1973, XXVI, 53

Smalberger, T.M.
see Vleggaar, R. . . . . 1973, XXVI, 64
Smalberger, T.M.
see Vleggaar, R. . . . . 1973, XXVI, 71
Snyckers, F.O.
see Pipe, D.F. . . . . 1977, XXX, 181
Snyckers, F.O. and Salemi, G.
Studies of South African medicinal plants. Part I. Quercetin as the major *in vitro* active component of rooibos tea . . . . . 1974, XXVII, 5
Sommerville, P.
see Laing, M. . . . . 1974, XXVII, 162
Sommerville, P.
see Laing, M. . . . . 1975, XXVIII, 279
Spies, H.S.C.
see Burger, B.V. . . . . 1975, XXVIII, 328
Staskun, B.
see Meltzer, P.C. . . . . 1974, XXVII, 119
Steenkamp, P.J.
Derivation of formulae underlying the angular overlap model and normalization of wave functions . . . . . 1976, XXIX, 71
Steenkamp, P.J.
see du Preez, J.G.H. . . . . 1975, XXVIII, 54
Steenkamp, P.J.
see Gonsalves, J.W. . . . . 1977, XXX, 62
Stephen, A.M.
see Churms, S.C. . . . . 1973, XXVI, 45
Stephen, A.M.
see Churms, S.C. . . . . 1973, XXVI, 111
Stephen, A.M.
see Freeman, B.H. . . . . 1973, XXVI, 106
Stephen, A.M.
see Rathbone, E.B. . . . . 1975, XXVIII, 287
Stephen, A.M. and van der Bijl, P.
Further structural studies of *Brabeium stellatifolium* gum by methylation analysis and Smith degradation . . . . . 1974, XXVII, 37
Stephen, A.M. and van der Bijl, P.
Aspects of the molecular structure of *Grevillea robusta* gum . . . . . 1975, XXVIII, 43
Steyn, P.S. and Vleggaar, R.
Dihydrofuro [3′,2′:4,5]furo[3,2-*b*] xanthenones: the structures of austocystins G, H and I . . . . . 1975, XXVIII, 375
Steyn, W.M.
see de Wet, W.J. . . . . 1975, XXVIII, 174
Strelow, F.W.E., Kokot, M.L., van der Walt, T.N. and Bhaga, B.
Rationalized determination of uranium in rocks for geochemical prospecting using separation by ion exchange chromatography and spectrophotometry with arsenazo III . . . . . 1976, XXIX, 97
Strelow, F.W.E. and Victor, A.H.
Accurate determination of vanadium in rocks by ion exchange chromatography-spectrophotometry . . . . . 1975, XXVIII, 272
Strelow, F.W.E., Weinert, C.H.S.W. and Boshoff, M.D.
Quantitative separation of indium from cadmium and other elements by cation exchange chromatography in HBr-acetone . . . . . 1973, XXVI, 118
Strydom, D.J. and Haylett, T.
Snake venom toxins. The amino acid sequence of toxin V_N2 of *Dendroaspis polylepis polylepis* (Black Mamba) venom . . . . . 1977, XXX, 40

T

Taljaard, B.
see Goosen, A. . . . . 1975, XXVIII, 196

Taljaard, B.
see Goosen, A. . . . . 1975, XXVIII, 235
Thackeray, M.M. and Coetzer, J.
Crystal structure of *N,N,N,N',N'',N'',N''*-heptamethyl-*N'*-hydro-diethylene-triamine triiodide monohydrate . . . . . 1977, XXX, 117
Thomas, A.C.
Polymerization of ethylene under the influence of gamma irradiation. Part II. Solution phase polymerization . . . . . 1973, XXVI, 1
Toerien, F. von S. and Levin, M.
Separation of palladium and platinum (IV) by ion exchange chromatography using ammonium acetate as complexing agent . . . . . 1974, XXVII, 87
Toerien, F. von S. and Levin, M.
Separation of platinum (IV), iridium (IV), rhodium (III), gold (III), palladium and silver by cation exchange chromatography . . . . . 1974, XXVII, 91
Turkstra, J.
see le Roux, H.J. . . . . 1974, XXVII, 28
Turkstra, J. and van Droogenbroeck, M.A.
Non-destructive determination of rare earths and thorium in rare-earth concentrates by neutron activation analysis and high-resolution gamma spectrometry . . . . . 1975, XXVIII, 61
Tyler, J.B.
see Rathbone, E.B. . . . . 1975, XXVIII, 287

V

van Berge, P.C.
see Zlotnick, J. . . . . 1974, XXVII, 70
van Berge, P.C.
see Zlotnick, J. . . . . 1974, XXVII, 80
van Brecht, B.
see du Preez, J.G.H. . . . . 1975, XXVIII, 220
van den Berg, J.A.
see Alberts, R. . . . . 1973, XXVI, 15
van den Berg, J.A.
see Maritz, B.S. . . . . 1975, XXVIII, 14
van der Bijl, P.
see Churms, S.C. . . . . 1973, XXVI, 45
van der Bijl, P.
see Stephen, A.M. . . . . 1974, XXVII, 37
van der Bijl, P.
see Stephen, A.M. . . . . 1975, XXVIII, 43
van der Linde, H.J.
see le Roux, H.J. . . . . 1976, XXIX, 40
van der Linde, H.J. and Basson, R.A.
Comparison of the radiolytic behaviour of the butyl alcohol isomers . . . . 1975, XXVIII, 115
van der Merwe, S.W.J.
see Cadman, P. . . . . 1974, XXVII, 149
van der Merwe, S.W.J.
see Engelbrecht, W.J. . . . . 1975, XXVIII, 144
van der Merwe, S.W.J.
see Engelbrecht, W.J. . . . . 1975, XXVIII, 148
van der Merwe, S.W.J.
see Engelbrecht, W.J. . . . . 1975, XXVIII, 158
van der Walt, S.J.
see Woolard, G.R. . . . . 1977, XXX, 29
van der Walt, T.N.
see Strelow, F.W.E. . . . . 1976, XXIX, 97
van Droogenbroeck, M.A.
see Turkstra, J. . . . . 1975, XXVIII, 61

van Eldik, R.
see Maritz, B.S. . . . . 1975, XXVIII, 14
van Es, T.
Halogenomethoxylation of D-xylal diacetate . . . . . 1973, XXVI, 152
van Niekerk, W.C.A.
see de Wet, W.J. . . . . 1975, XXVIII, 174
van Niekerk, W.C.A. and de Wet, W.J.
Mobility-ratio studies on organic polymer molecules . . . . . 1975, XXVIII, 167
van Niekerk, W.C.A. and de Wet. W.J.
Electrical relaxation phenomena in borosilicate glass membranes . . . . . 1977, XXX, 13
van Reenen, T.J.
see de Wet, W.J. . . . . 1975, XXVIII, 174
van Rensburg, J.F.J.
see Schep, R.A. . . . . 1974, XXVII, 56
van Vuuren, C.P.J.
see du Preez, J.G.H. . . . . 1976, XXIX, 15
van Wyk, A.J.
Chemistry of *Cotyledon wallichii* Harv. Part III. The partial constitution of cotyledoside, a novel bufadienolide . . . . . 1975, XXVIII, 281
van Wyk, A.J.
Constitution of a new hasubanan alkaloid from *Stephania abyssinica* (Dill. and Rich. Walp.) . . . . . 1975, XXVIII, 284
van Wyk, A.J. and Wiechers, A.
Constitution of a new hasubanan ester-ketal alkaloid from *Stephania abyssinica* . . . . . 1974, XXVII, 95
van Wyk, L.
Kinetic analysis of the results from the radiolysis of ethanol/ethylene systems 1974, XXVII, 8
van Wyk, P.J.
see Ackerman, L.G.J. . . . . 1974, XXVII, 1
van Wyk, P.J.
see Ackerman, L.G.J. . . . . 1975, XXVIII, 139
Venter, D.P.
see Martins, F.J.C. . . . . 1977, XXX, 89
Vermeulen, N.M.J.
see Koekemoer, J.M. . . . . 1974, XXVII, 131
Victor, A.H.
see Strelow, F.W.E. . . . . 1975, XXVIII, 272
Viljoen, A.M.
see Martins, F.J.C. . . . . 1977, XXX, 89
Visagie, H.E.
see Burger, B.V. . . . . 1975, XXVIII, 328
Visagie, H.E.
see Burger, B.V. . . . . 1975, XXVIII, 337
Vleggaar, R.
see Steyn, P.S. . . . . 1975, XXVIII, 375
Vleggaar, R., Smalberger, T.M. and de Waal, H.L.
Flavonoids from *Tephrosia*. Part III. The constitution of tephrodin and stachyoidin . . . . . 1973, XXVI, 53
Vleggaar, R., Smalberger, T.M. and de Waal, H.L.
Flavonoids from *Tephrosia*. Part IV. Synthesis of methyl tephrodinate, a degradation product of tephrodin . . . . . 1973, XXVI, 64
Vleggaar, R., Smalberger, T.M. and de Waal, H.L.
Flavonoids from *Tephrosia*. Part V. The structure of tephrostachin . . . . . 1973, XXVI, 71

W

Waight, E.S.
see Laing, M. . . . . 1974, XXVII, 137

Warshawsky, A.
Regioselective additions to 4,4-dimethylhomophthalimide . . . . . 1974, XXVII, 164
Woolard, G.R. and Rathbone, E.B.
Gas-liquid chromatography of methyl α-D-mannosides and their *O*-methyl ethers. Part I. Acetylated methyl glycosides and alditols derived from methyl α-D-mannofuranoside . . . . . 1977, XXX, 69
Woolard, G.R., Rathbone, E.B. and Cameron, C.M.
Structural investigations on the *O*-specific side-chains of the cell-wall lipopolysaccharide from *Salmonella onderstepoort* . . . . . 1977, XXX, 229
Woolard, G.R., Rathbone, E.B. and Derckson, A.W.
Gas-liquid chromatography of methyl α-D-mannosides and their *O*-methyl ethers. Part II. Acetylated aldononitriles derived from methyl α-D-mannopyranoside and methyl α-D-mannofuranoside . . . . . 1977, XXX, 169
Woolard, G.R., Rathbone, E.B. and Novellie, L.
Sorghum polysaccharides. Part II. Annual variations in the distribution of grain husk hemicellulose B fractions and isolation of malt husk polysaccharides . . . . . 1977, XXX, 24
Woolard, G.R., Rathbone, E.B. and Novellie, L.
Sorghum polysaccharides. Part IV. Isolation of the polysaccharides from the endosperm of sorghum grain and malt, and fractionation of hemicellulose B . . . . . 1977, XXX, 33
Woolard, G.R., Rathbone, E.B. and van der Walt, S.J.
Sorghum polysaccharides. Part III. Molecular-weight studies on the polysaccharides of hemicellulose B from sorghum grain husk . . . . . 1977, XXX, 29
Weinert, C.H.S.W.
see Strelow, F.W.E. . . . . 1973, XXVI, 118
Wenteler, G.L.
see Dekker, J. . . . . 1975, XXVIII, 321
Whelan, R.
see Abel, E.W. . . . . 1977, XXX, 1
Wiechers, A.
see Pipe, D.F. . . . . 1977, XXX, 181
Wiechers, A.
see van Wyk, A.J. . . . . 1974, XXVII, 95
Wilkinson, P.J.
see Abel, E.W. . . . . 1977, XXX, 1
Woolard, G.R.
see Freeman, B.H. . . . . 1973, XXVI, 106
Woolard, G.R.
see Hodgkinson, A.J. . . . . 1974, XXVII, 111
Wright, W.G.
see Candy, H.A. . . . . 1973, XXVI, 11
Wright, W.
see Candy, H.A. . . . . 1975, XXVIII, 215

Y

Yannakou, K.
see Neuse, E.W. . . . . 1974, XXVII, 14

Z

Zlotnick, J., van Berge, P.C. and Prinsloo, J.J.
Surface properties of commercial and cane sugar carbons. Part I. The effect of activation . . . . . 1974, XXVII, 70
Zlotnick, J., van Berge, P.C. and Prinsloo, J.J.
Surface properties of commercial and cane sugar carbons. Part II. Geometric and empirical relationships of adsorption isotherms . . . . . 1974, XXVII, 80

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